RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/569.076
Source:	IFWP.
Date Processed by STIC:	3/2/06

ENTERED



IFWP

RAW SEQUENCE LISTING DATE: 03/02/2006
PATENT APPLICATION: US/10/569,076 TIME: 10:28:51

Input Set : A:\SEQlist003.txt

Output Set: N:\CRF4\03022006\J569076.raw

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7 <110> APPLICANT: BERDEL, Wolfgang E.
             MESTERS, Rolf M.
     10 <120> TITLE OF INVENTION: Fusion polypeptides for antivascular tumor therapy
    12 <130> FILE REFERENCE: 20490.003
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/569,076
C--> 14 <141> CURRENT FILING DATE: 2006-02-21
     14 <150> PRIOR APPLICATION NUMBER: PCT/EP04/009364
     15 <151> PRIOR FILING DATE: 2004-08-20
     17 <150> PRIOR APPLICATION NUMBER: DE 10338733.1
     18 <151> PRIOR FILING DATE: 2003-08-22
     20 <160> NUMBER OF SEQ ID NOS: 41
     22 <170> SOFTWARE: PatentIn version 3.1
     25 <210> SEQ ID NO: 1
     26 <211> LENGTH: 263
     27 <212> TYPE: PRT
     28 <213> ORGANISM: Homo sapiens
     30 <220> FEATURE:
W--> 31 <221> NAME/KEY: Amino acid sequence of human TF
     33 <400> SEQUENCE: 1
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     37 Thr Asn Phe Lys Thr Ile Leu Glu Trp Glu Pro Lys Pro Val Asn Gln
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     40 Val Tyr Thr Val Gln Ile Ser Thr Lys Ser Gly Asp Trp Lys Ser Lys
     43 Cys Phe Tyr Thr Thr Asp Thr Glu Cys Asp Leu Thr Asp Glu Ile Val
                                55
     46 Lys Asp Val Lys Gln Thr Tyr Leu Ala Arg Val Phe Ser Tyr Pro Ala
                            70
     49 Gly Asn Val Glu Ser Thr Gly Ser Ala Gly Glu Pro Leu Tyr Glu Asn
     52 Ser Pro Glu Phe Thr Pro Tyr Leu Glu Thr Asn Leu Gly Gln Pro Thr
                    100
                                        105
     55 Ile Gln Ser Phe Glu Gln Val Gly Thr Lys Val Asn Val Thr Val Glu
                                    120
     58 Asp Glu Arg Thr Leu Val Arg Arg Asn Asn Thr Phe Leu Ser Leu Arg
                                135
     61 Asp Val Phe Gly Lys Asp Leu Ile Tyr Thr Leu Tyr Tyr Trp Lys Ser
                            150
     64 Ser Ser Ser Gly Lys Lys Thr Ala Lys Thr Asn Thr Asn Glu Phe Leu
                                            170
     67 Ile Asp Val Asp Lys Gly Glu Asn Tyr Cys Phe Ser Val Gln Ala Val
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185

180

68

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/569,076

DATE: 03/02/2006
TIME: 10:28:51

Input Set : A:\SEQlist003.txt

Output Set: N:\CRF4\03022006\J569076.raw

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70 Ile Pro Ser Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu
               195
                                   200
    73 Cys Met Gly Gln Glu Lys Gly Glu Phe Arg Glu Ile Phe Tyr Ile Ile
                              215
    76 Gly Ala Val Val Phe Val Val Ile Ile Leu Val Ile Ile Leu Ala Ile
                           230
    79 Ser Leu His Lys Cys Arg Lys Ala Gly Val Gly Gln Ser Trp Lys Glu
                       245
    82 Asn Ser Pro Leu Asn Val Ser
    88 <210> SEQ ID NO: 2
    89 <211> LENGTH: 218
    90 <212> TYPE: PRT
    91 <213> ORGANISM: Homo sapiens
    93 <220> FEATURE:
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    96 <400> SEQUENCE: 2
    97 Ser Gly Thr Thr Asn Thr Val Ala Ala Tyr Asn Leu Thr Trp Lys Ser
                                           10 15
    100 Thr Asn Phe Lys Thr lie Leu Glu Trp Glu Pro Lys Pro Val Asn Gin
                    20
    103 Val Tyr Thr Val Gln Ile Ser Thr Lys Ser Gly Asp Trp Lys Ser Lys
    106 Cys Phe Tyr Thr Thr Asp Thr Glu Cys Asp Leu Thr Asp Glu Ile Val
                                55
    109 Lys Asp Val Lys Gln Thr Tyr Leu Ala Arg Val Phe Ser Tyr Pro Ala
                            70
    112 Gly Asn Val Glu Ser Thr Gly Ser Ala Gly Glu Pro Leu Tyr Glu Asn
                       85
                                           90
    115 Ser Pro Glu Phe Thr Pro Tyr Leu Glu Thr Asn Leu Gly Gln Pro Thr
                    100
                                        105
    118 Ile Gln Ser Phe Glu Gln Val Gly Thr Lys Val Asn Val Thr Val Glu
                                    120
    121 Asp Glu Arg Thr Leu Val Arg Arg Asn Asn Thr Phe Leu Ser Leu Arg
                                135
    124 Asp Val Phe Gly Lys Asp Leu Ile Tyr Thr Leu Tyr Tyr Trp Lys Ser
                            150
                                                155
    127 Ser Ser Ser Gly Lys Lys Thr Ala Lys Thr Asn Thr Asn Glu Phe Leu
                        165
                                            170
    130 Ile Asp Val Asp Lys Gly Glu Asn Tyr Cys Phe Ser Val Gln Ala Val
                                       185
                   180
    133 Ile Pro Ser Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu
    134 195
    136 Cys Met Gly Gln Glu Lys Gly Glu Phe Arg
    137 210
                                215
    141 <210> SEQ ID NO: 3
    142 <211> LENGTH: 224
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143 <212> TYPE: PRT

144 <213> ORGANISM: Artificial

RAW SEQUENCE LISTING DATE: 03/02/2006
PATENT APPLICATION: US/10/569,076 TIME: 10:28:51

Input Set : A:\SEQlist003.txt

Output Set: N:\CRF4\03022006\J569076.raw

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146 <220> FEATURE:
W--> 147 <221> NAME/KEY: Amino acid sequence of tTF-GRGDSP
    148 <223> OTHER INFORMATION: Synthetic construct
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    154 Thr Asn Phe Lys Thr Ile Leu Glu Trp Glu Pro Lys Pro Val Asn Gln
    155
                    20
                                        25
    157 Val Tyr Thr Val Gln Ile Ser Thr Lys Ser Gly Asp Trp Lys Ser Lys
    160 Cys Phe Tyr Thr Thr Asp Thr Glu Cys Asp Leu Thr Asp Glu Ile Val
                                55
    163 Lys Asp Val Lys Gln Thr Tyr Leu Ala Arg Val Phe Ser Tyr Pro Ala
    166 Gly Asn Val Glu Ser Thr Gly Ser Ala Gly Glu Pro Leu Tyr Glu Asn
                        85
                                            90
    169 Ser Pro Glu Phe Thr Pro Tyr Leu Glu Thr Asn Leu Gly Gln Pro Thr
                    100
                                        105
    172 He Gln Ser Phe Glu Gln Val Gly Thr Lys Val Asn Val Thr Val Glu
    173
                                    120
    175 Asp Glu Arg Thr Leu Val Arg Arg Asn Asn Thr Phe Leu Ser Leu Arg
                                135
    178 Asp Val Phe Gly Lys Asp Leu Ile Tyr Thr Leu Tyr Tyr Trp Lys Ser
                            150
                                                155
    181 Ser Ser Ser Gly Lys Lys Thr Ala Lys Thr Asn Thr Asn Glu Phe Leu
                                            170
                        165
    184 Ile Asp Val Asp Lys Gly Glu Asn Tyr Cys Phe Ser Val Gln Ala Val
                   180
                                        185
    187 Ile Pro Ser Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu
    188 195
                                   200
                                                         205
    190 Cys Met Gly Gln Glu Lys Gly Glu Phe Arg Gly Arg Gly Asp Ser Asp
            210
                                215
    196 <210> SEQ ID NO: 4
    197 <211> LENGTH: 225
    198 <212> TYPE: PRT
    199 <213> ORGANISM: Artificial
    201 <220> FEATURE:
W--> 202 <221> NAME/KEY: Amino acid sequence of tTF-GNGRAHA
    203 <223> OTHER INFORMATION: Synthetic construct
    205 <400> SEQUENCE: 4
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    207 1
    209 Thr Asn Phe Lys Thr Ile Leu Glu Trp Glu Pro Lys Pro Val Asn Gln
                    20
                                         25
    212 Val Tyr Thr Val Gln Ile Ser Thr Lys Ser Gly Asp Trp Lys Ser Lys
                                    40
    215 Cys Phe Tyr Thr Thr Asp Thr Glu Cys Asp Leu Thr Asp Glu Ile Val
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218 Lys Asp Val Lys Gln Thr Tyr Leu Ala Arg Val Phe Ser Tyr Pro Ala

RAW SEQUENCE LISTING DATE: 03/02/2006
PATENT APPLICATION: US/10/569,076 TIME: 10:28:51

Input Set : A:\SEQlist003.txt

Output Set: N:\CRF4\03022006\J569076.raw

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219 65
                            70
                                                75
    221 Gly Asn Val Glu Ser Thr Gly Ser Ala Gly Glu Pro Leu Tyr Glu Asn
                                            90
    224 Ser Pro Glu Phe Thr Pro Tyr Leu Glu Thr Asn Leu Gly Gln Pro Thr
    225
                                        105
    227 Ile Gln Ser Phe Glu Gln Val Gly Thr Lys Val Asn Val Thr Val Glu
                                    120
    230 Asp Glu Arg Thr Leu Val Arg Arg Asn Asn Thr Phe Leu Ser Leu Arg
                                135
    233 Asp Val Phe Gly Lys Asp Leu Ile Tyr Thr Leu Tyr Trp Lys Ser
                            150
                                                155
    236 Ser Ser Ser Gly Lys Lys Thr Ala Lys Thr Asn Thr Asn Glu Phe Leu
                                            170
    239 Ile Asp Val Asp Lys Gly Glu Asn Tyr Cys Phe Ser Val Gln Ala Val
                                        185
                    180
    242 Ile Pro Ser Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu
                                    200
    245 Cys Met Gly Gln Glu Lys Gly Glu Phe Arg Gly Asn Gly Arg Ala His
                                                    220
    246, . 310
                                215
                                     .
    248 Ala
    249 225
    256 <210> SEQ ID NO: 5
    257 <211> LENGTH: 228
    258 <212> TYPE: PRT
    259 <213> ORGANISM: Artificial
    261 <220> FEATURE:
W--> 262 <221> NAME/KEY: Amino acid sequence of tTF-GALNGRSHAG
    263 <223> OTHER INFORMATION: Synthetic construct
    265 <400> SEQUENCE: 5
    266 Ser Gly Thr Thr Asn Thr Val Ala Ala Tyr Asn Leu Thr Trp Lys Ser
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    269 Thr Asn Phe Lys Thr Ile Leu Glu Trp Glu Pro Lys Pro Val Asn Gln
                    20
    272 Val Tyr Thr Val Gln Ile Ser Thr Lys Ser Gly Asp Trp Lys Ser Lys
    275 Cys Phe Tyr Thr Thr Asp Thr Glu Cys Asp Leu Thr Asp Glu Ile Val
    278 Lys Asp Val Lys Gln Thr Tyr Leu Ala Arg Val Phe Ser Tyr Pro Ala
                            70
    281 Gly Asn Val Glu Ser Thr Gly Ser Ala Gly Glu Pro Leu Tyr Glu Asn
                        85
    284 Ser Pro Glu Phe Thr Pro Tyr Leu Glu Thr Asn Leu Gly Gln Pro Thr
                    100
                                        105
    287 Ile Gln Ser Phe Glu Gln Val Gly Thr Lys Val Asn Val Thr Val Glu
                                    120
               115
    290 Asp Glu Arg Thr Leu Val Arg Arg Asn Asn Thr Phe Leu Ser Leu Arg
                                135
    293 Asp Val Phe Gly Lys Asp Leu Ile Tyr Thr Leu Tyr Trp Lys Ser
    294 145
                            150
                                                155
                                                                    160
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DATE: 03/02/2006

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PATENT APPLICATION: US/10/569,076
                                                          TIME: 10:28:51
                   Input Set : A:\SEQlist003.txt
                   Output Set: N:\CRF4\03022006\J569076.raw
   296 Ser Ser Ser Gly Lys Lys Thr Ala Lys Thr Asn Thr Asn Glu Phe Leu
                       165
                                           170
   299 Ile Asp Val Asp Lys Gly Glu Asn Tyr Cys Phe Ser Val Gln Ala Val
                                       185
   302 Ile Pro Ser Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu
                                   200
   305 Cys Met Gly Gln Glu Lys Gly Glu Phe Arg Gly Ala Leu Asn Gly Arg
           210
                               215
   308 Ser His Ala Gly
   309 225
   314 <210> SEQ ID NO: 6
   315 <211> LENGTH: 225
   316 <212> TYPE: PRT
   317 <213> ORGANISM: Artificial
   319 <220> FEATURE:
--> 320 <221> NAME/KEY: Amino acid sequence of tTF-GCNGRCG
   321 <223> OTHER INFORMATION: Synthetic construct
   323 <400> SEQUENCE: 6
 324 Ser Gly Thr Thr Asn Thr Val Ala Ala Tyr Asn Leu Thr Trp Lys Ser
   327 Thr Asn Phe Lys Thr Ile Leu Glu Trp Glu Pro Lys Pro Val Asn Gln
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                                       25
   330 Val Tyr Thr Val Gln Ile Ser Thr Lys Ser Gly Asp Trp Lys Ser Lys
                                   40
   333 Cys Phe Tyr Thr Thr Asp Thr Glu Cys Asp Leu Thr Asp Glu Ile Val
                               55
   336 Lys Asp Val Lys Gln Thr Tyr Leu Ala Arg Val Phe Ser Tyr Pro Ala
                           70
   339 Gly Asn Val Glu Ser Thr Gly Ser Ala Gly Glu Pro Leu Tyr Glu Asn
                       85
                                            90
   342 Ser Pro Glu Phe Thr Pro Tyr Leu Glu Thr Asn Leu Gly Gln Pro Thr
                                       105
   345 Ile Gln Ser Phe Glu Gln Val Gly Thr Lys Val Asn Val Thr Val Glu
               115
   348 Asp Glu Arg Thr Leu Val Arg Arg Asn Asn Thr Phe Leu Ser Leu Arg
                               135
   351 Asp Val Phe Gly Lys Asp Leu Ile Tyr Thr Leu Tyr Tyr Trp Lys Ser
                                                155
                           150
   354 Ser Ser Ser Gly Lys Lys Thr Ala Lys Thr Asn Thr Asn Glu Phe Leu
                       165
                                           170
   357 Ile Asp Val Asp Lys Gly Glu Asn Tyr Cys Phe Ser Val Gln Ala Val
                   180
                                       185
   360 Ile Pro Ser Arg Thr Val Asn Arg Lys Ser Thr Asp Ser Pro Val Glu
              195
                                   200
   363 Cys Met Gly Gln Glu Lys Gly Glu Phe Arg Gly Cys Asn Gly Arg Cys
                               215
   366 Gly
   367 225
   374 <210> SEQ ID NO: 7
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RAW SEQUENCE LISTING

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/02/2006 PATENT APPLICATION: US/10/569,076 TIME: 10:28:52

Input Set : A:\SEQlist003.txt

Output Set: N:\CRF4\03022006\J569076.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,10,11,12,13,14,15,18,19,20,21,22,23,24,25,26,27,28,29,30,31 Seq#:32,33,34,35,36,37,38,39,40,41
 VERIFICATION SUMMARY
 DATE: 03/02/2006

 PATENT APPLICATION: US/10/569,076
 TIME: 10:28:52

Input Set : A:\SEQlist003.txt

Output Set: N:\CRF4\03022006\J569076.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application No L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:31 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1 L:94 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2 L:147 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3 L:202 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4 L:262 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5 L:320 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6 L:380 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7 L:440 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8 L:498 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9 L:501 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9 L:536 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10 L:572 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11 L:609 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12 L:646 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13 L:681 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14 L:716 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15 L:748 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:46 600 L:761 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16 L:762 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17 L:765 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17 L:779 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18 L:793 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19 L:807 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20 L:820 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21 L:834 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22 L:848 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23 L:864 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24 L:878 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25 L:893 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26 L:907 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27 L:921 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28 L:935 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29 L:953 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30 L:973 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31 L:1036 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32 L:1141 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36 L:1156 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:37 L:1172 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:38